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| (21) International Application Number: PCT/US99/15594 (22) International Filing Date: 8 July 1999 (08.07.99) (30) Priority Data: 60/093,965 24 July 1998 (24.07.98) US (71) Applicant (for all designated States except US): ALLEGHNEY UNIVERSITY OF THE HEALTH SCIENCES [US/US]; Broad and Vine Streets, Philadelphia, PA 19102-1192 (US). (71)(72) Applicants and Inventors: HALPERN, Michael, S. [US/US]; 66 Taft Avenue, West Newton, MA 02465 (US). ENGLAND, James, M. [US/US]; 644 West Rosetree Road, Media, PA 19063 (US). (74) Agent: MONACO, Daniel, A.; Seidel, Gonda, Lavorgna & Monaco, P.C., Suite 1800, Two Penn Center Plaza, Philadelphia, PA 19102 (US). | | (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published With international search report. |
| (54) Title: ALLOGENEIC CELLULAR IMMUNOGENS USEFUL AS CANCER VACCINES (57) Abstract A cellular immunogen is provided for immunizing a host against the effects of the product of a target proto-oncogene, where the overexpression of the target proto-oncogene is associated with a malignancy. The cellular immunogen comprises allogeneic (with respect to the host) cells which have been transfected with at least one transgene construct comprising a transgene cognate to the target proto-oncogene and a strong promoter to drive the expression of the transgene in the transfected cells. The transgene encodes a gene product which induces host immunoreactivity to host self-determinants of the product of the target proto-oncogene gene. The transgene may comprise, for example, wild-type or mutant retroviral oncogene DNA cognate to the target proto-oncogene; or wild-type or mutant proto-oncogene DNA of a species different from the host species. The cellular immunogen may be prepared from allogeneic donor cells, e.g. skin fibroblasts, which are stably or transiently transfected with the transgene construct containing the cognate transgene. The donor cells transfected with the cognate transgene constructs are then inserted into the body of the host to obtain expression of the cognate transgene in the host. | | |

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